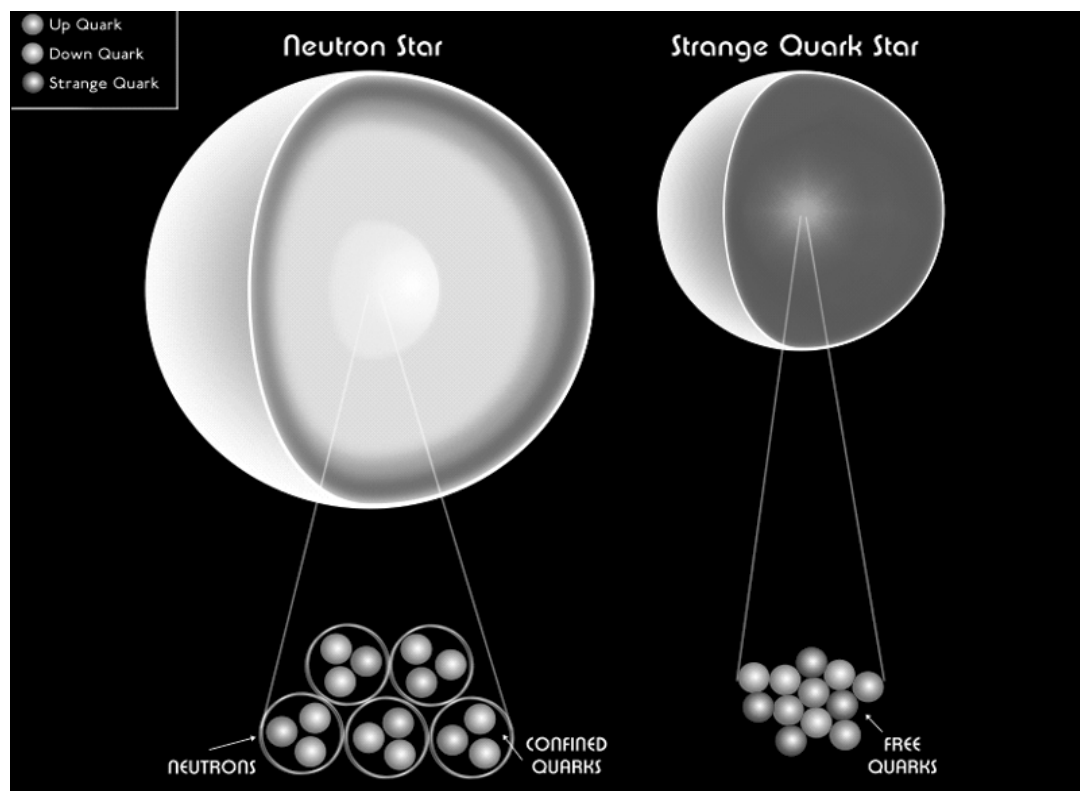


# NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, May 3, 2002

Vol. 27, No. 18



NASA

In a neutron star (left), the quarks that comprise the neutrons are confined inside the neutrons. In a quark star (right), the quarks are free, resulting in a smaller diameter for the star.

## NASA sheds light on star search

**Lab scientist made prediction  
25 years ago on quark stars**

By Anne M. Stark

NEWSLINE STAFF WRITER

A recent discovery of never-before-seen matter in stars is proof to Lab physicist George Chapline that his theory about quark stars developed 25 years ago with UC Santa

Cruz physicist Michael Nauenberg has rung true.

In mid-April, astronomers discovered a pair of collapsed stars — remnants of supernovae — with unusual properties. One of these objects is much smaller and the other much colder than a neutron star, which at the time was the densest known matter seen in a star. Observations from NASA's Chandra X-

See **QUARK**, page 8

## Boeing computer expert Kenneth Neves selected as Lab's first full-time CIO

By Don Johnston

NEWSLINE STAFF WRITER

Kenneth W. Neves, a computer and information technology expert from Boeing, has been selected to serve as the Laboratory's first full-time chief information officer (CIO) and will start in late June.

Neves, former director of computer science research at Boeing, will have responsibility for the Laboratory's information infrastructure and computer security. He will work in LLNL's Computation Directorate, reporting directly to Associate Director Dona Crawford.

See **CIO**, page 4

## Director candidate withdraws from selection process

*Editor's note: Below is a statement issued Wednesday by UC President Richard Atkinson concerning the withdrawal of Ray Juzaitis as a candidate for Lab director. Also included is a statement by Director Bruce Tarter. These statements were printed in NewsOnLine. Newsline is reprinting them for those employees who do not have access to a computer.*



**From Richard Atkinson  
President, University of California**

"Ray Juzaitis yesterday informed me of his decision to withdraw his name from consideration as a candidate for director of Lawrence Livermore National Laboratory. Dr. Juzaitis indicated that his

See **DIRECTOR**, page 8

## Claire Max joins noteworthy list of AAAS fellows

By Anne M. Stark

NEWSLINE STAFF WRITER

What do Sen. Edward Kennedy, Academy Award winning actress Anjelica Huston and Lab physicist Claire Max all have in common?

Answer: They all have been named as fellows in the 2002 class of the American Academy of Arts and Sciences, one of the nation's preeminent learned societies.

The academy named 177 fel-



Claire Max

lows and 30 foreign honorary members to the 2002 class. The

See **MAX**, page 8

## NAI offers travel security seminar

Employees who travel abroad are invited to attend a travel security seminar next week.

The all-day seminar, set for Wednesday, May 8, in the Bldg. 361 auditorium is designed to provide travelers with an awareness and understanding of security threats in the post-Sept. 11 era.

"We have a lot of people who travel for the Nonproliferation, Arms Control and International Security (NAI) directorate and for other programs throughout the Laboratory," said NAI's Bill Dunlop.

"With the present security concerns, we thought this seminar would be a good opportunity to pass on

safety and security tips to Lab employees who travel."

The seminar will be led by Philip Baum, managing director of Green Light Limited, a firm that trains airline airport personnel in aviation security procedures.

Baum, who regularly appears on the BBC, Sky News and CNN to discuss security issues, is the editor of Aviation Security International. He is a former director of Training and Auditing for TWA's subsidiary security company.

Among the topics to be covered during the seminar will be threat

See **TRAVEL**, page 5



**1969: A step up  
for supercomputing**

— Page 3



**DDLS delves into  
biological security**

— Page 5



**Training  
opportunities**

— Insert



# LAB COMMUNITY NEWS

## Weekly Calendar

### Technical Meeting Calendar, page 4

Friday  
3

If you pre-ordered tamales from Amigos Unidos, today's the day to pick them up at the annual **Cinco de Mayo** celebration. All orders will be available for pickup from 11:30 a.m. to 1 p.m. in the pool area and traditional Cinco de Mayo lunches will be served. Contact: Yahel De La Cruz, 4-3507, or Maurice Hernandez, 2-9392.

There is a **scheduled power outage** in Bldg. 439 from 4 p.m. today through 7 a.m. Monday. Contact: Mark Cardoza, 3-0490.

Saturday  
4

A **power outage** is scheduled from 6 a.m. until 3 p.m. in the following buildings: Bldgs. 361, 362, 363, 364, 365, 367, 373, 376 and 377; and Trailer 3629. Emergency power will run in all of the buildings during the outage. Contact: Mark Cardoza, 3-0490.

Tuesday  
7

**Lab Veterans Association (LLAFVA)** will meet at noon in the Bldg. 511 upstairs conference room to discuss Memorial Day events. Contact: Marty Davis, 2-8121; Chris Trapp, 2-5273 or Chelle Clements, 3-8134.

U.S. Treasury Department representative Diana Louis will discuss **U.S. Savings Bonds** at noon in Bldg. 571, conference room 130. U.S. Savings Bonds, Series EE are available to Lab employees by payroll deduction. Contact: Benefits Office, 2-9955.

Want better relationships? **Codependents Anonymous (CoDA)** meets Tuesday at noon in Bldg. 571, room 2016. Contact: 3-2304.

Wednesday  
8

A representative from **Fidelity Investments** will be on-site to meet with employees today and Thursday and May 14-15. Fidelity Investments are available to UC's 403(b) participants in addition to UC-managed investment funds. For an appointment, call Fidelity at 1-800-642-7131. Be sure to specify you are an LLNL employee.

Thursday  
9

The Lab's **Return to Work Program** is sponsoring a brown bag session with Julia Faucett, director of UCSF's Occupational and Environmental Health Nursing Program, at 11 a.m. in the Bldg. 543 auditorium. She will discuss the impact of disability on peoples' lives at home and work.



Lab TV

### Broadcast Schedule

The presentation by Michele French on **"UC and the Current Health Care Environment"** will be shown on Lab TV, Channel 2 11:30 a.m.-1 p.m. on Wednesday, May 8 and May 15.

## Lab showcases science of nature

Get up close and personal with California wildlife when the Laboratory presents "Back to Nature, Down to Earth," a showcase for the science of nature and earth.

The event, which is free to the public, takes place Saturday, May 18, 10 a.m. to 2 p.m. at the Visitors Center, near the Eastgate entrance.

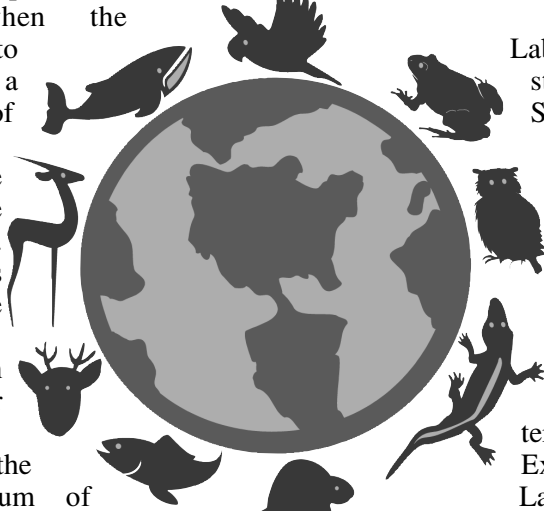
The event is also open to Lab employees and their families.

Representatives from the Lindsay Wildlife Museum of Walnut Creek will be on hand with live animals, displays and literature about the creatures

and critters of California.

Other highlights include the Lab's Fun With Science demonstrations, presented by Elvis Spencer of DNT; interactive LEGO robots, by Kathy Fritz of Engineering, an Energy Bike provided by Plant Engineering; EPD displays of endangered and threatened species that have found haven at the Lab, as well as an environmental diorama to demonstrate pollution via stormwater runoff; and an exhibit by the Explorer Post Scouts, led by the Lab's Joe Shinn.

The Visitors Center will also be open during the day.



## Community tour program expands scope, hours

In conjunction with its 50th anniversary, the Laboratory has expanded its public tour program to offer more tours each month, as well as more stops along the way.

The two-hour tour is offered twice weekly at 10 a.m. Tuesdays and Thursdays. Visitors must

register in advance. Special tours can also be arranged for groups of eight or more people with two weeks' advance notice.

For more information about the tour program, call 4-6575 or visit the Web at [www.llnl.gov/pao](http://www.llnl.gov/pao)

## IN MEMORIAM

### Russell Ford

Services were held for Russell E. "Mickey" Ford, a Lab retiree who died March 16. He was 86.

Ford worked as an analyst at the Lab for 20 years before retiring in 1976. He was a supervisor for Simon Hardware and the owner of Eastman Shoe Repair, both in Oakland.

A native of Kansas City, Kan., Ford lived in San Leandro for more than 60 years. He enjoyed horse racing, the ocean and working with wood.

Survivors include his wife of 37 years, Emmy; daughters Donna and Jeanne; step-daughters Christi and Jolleen; nine grandchildren and 19 great-grandchildren.

### George A. Harter

Lab retiree George A. Harter died April 23 at the age of 69.

Born July 17, 1932, in South Gate. He was a veteran of the U.S. Navy and served during the Korean War.

Harter worked at the Lab for 31 years as an engineering coordinator.

He enjoyed wood-working, reading, playing cards and computer games. He was a member of the American Association of Retired Persons and the SIRS club in Livermore.

Harter is survived by his wife of 25 years, Bernadette Harter; sons, Michael and Richard; daughter Rosanna Dhillon; and three grandchildren.

Memorial gifts may be sent to a favorite charity.

### Sidney Stembridge

Sidney David Stembridge, 74, the former deputy associate director of administration, died of cancer April 22 at his home in Tryon, N.C. He was 74.

Before joining the Lab, Stembridge served with the CIA for 30 years, retiring in 1979 as deputy director of security. As deputy security director, he was involved in handling security clearances and testifying at hearings about security breaches. During his CIA career, he also did covert intelligence work and received the agency's Distinguished Intelligence Medal.

After leaving the CIA, Stembridge came to the Lab, where he worked until 1987. He moved from

California to North Carolina in 1987 and was executive vice president of Petite Research Group Inc. in Falls Church from 1990-92.

Stembridge was a native of Milledgeville, Ga., and a graduate of Georgetown University's School of Foreign Service. He was also a graduate of the Federal Executive Institute and did graduate work in business at Harvard University. He served in the Army in the mid-1940s during the occupation of Japan.

Survivors include his wife, Corrine, whom he married in 1957; two daughters, Ann Kung of Concord and Jane Berger of Switzerland; two sisters, a brother and two grandsons.

### Ralph Stolberg

Services have been held for Lab retiree Ralph Stolberg who died April 10. He was 84.

Stolberg was born July 25, 1917. He resided in Livermore for 61 years. He was an Army veteran, serving in the Signal Corps during World War II. He was a member of SIRS #101.

He worked as a technician at the Lab for 20 years.

He is survived by grandniece Renee Cox of Modesto and friends Leonard and Josie Gregory of Livermore. He was preceded in death by his wife Frances Stolberg in 1998.

## Newsline

*Newsline* is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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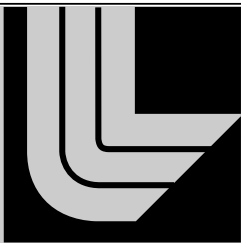
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Printed on recycled paper

1952 – 2002  
MAKING HISTORY, MAKING A DIFFERENCE



Machines for timesharing and 2-D modeling

*This is an ongoing feature highlighting the Lab’s 50-year history. This week we take a look at the year 1969.*

Laboratory weapons designers eagerly greeted their first CDC 7600 supercomputer in 1969. Livermore had purchased a CDC 1604 mainframe from then-upstart Control Data Corporation of Minnesota in 1962. When young CDC engineer Seymour Cray planned a machine 50 times faster (the CDC 6600), the Lab happily acquired it in 1964. Cray’s design team then developed the even larger and faster CDC 7600 in 1969.

In the hands of Laboratory users, these machines defined scientific supercomputing for years. The Livermore Time Sharing System (LTSS, later CTSS), large Fortran subroutine libraries, Octopus network, local job-control language, online documentation system, and file-storage service all set the standards in their fields.

The Laboratory’s collaboration with Seymour Cray continued, too. In 1972 he started his own company (Cray Research) and developed his first integrated-circuit scientific computer, the CRAY-1. As they became available, the Lab acquired early versions of every Cray Research machine.



The Control Data Corp. (CDC) 7600 came to the Lab in 1969.

SUPER  
computing

1969

Around the Lab

- **Computers for Chromosome Analysis**  
In 1969, Lab researchers use a computer-based system called CYDAC to calculate the amount of DNA present in any given chromosome.



CYDAC “sees” each chromosome as 100,000 bits of information, which the computer then checks against what it knows about healthy chromosomes and then reports abnormalities, a feat impossible to match with human vision.

- The number of Lab employees increases to approximately 5,600. Major Laboratory work included nuclear weapons research, development, and testing; magnetic fusion; inertial fusion; and peaceful nuclear explosives testing under the Plowshare Program. The Biomedical Program was established.

- Michael M. May was director of the Lab from 1965–1971.



Around the nation

- Richard Nixon is inaugurated president of the United States
- Neil Armstrong becomes the first man to walk on the moon
- National Environmental Policy Act of 1969 takes place
- Woodstock music festival takes place
- Sesame Street debuts on public television

Around the world

- Sino-Soviet forces battle on Manchurian border
- Phased withdrawal of U.S. troops from Vietnam begins
- Mitchell and Calley stand trial for My Lai massacre

in other  
NEWS

Significant events  
around the Lab,  
the nation  
and the  
world

For more of the Lab’s rich history, check out the Timeline, located at :  
<http://www.llnl.gov/timeline/>





## NEWS YOU CAN USE

### CIO

*Continued from page 1*

"Computation is the backbone of everything we do here at the Laboratory, from basic science and technology R&D to business operations," Crawford said. "Ken brings the breadth and depth in research and development as well as information management needed to create a long-term information management strategy for the Laboratory in a rapidly evolving information technology environment."

Neves will lead an effort to craft a robust information management system that meets the needs of individual national security programs as well as the collective needs of the Laboratory. As the new CIO, he will have the responsibility to develop an "enterprise plan," a strategic vision of an information infrastructure that will serve the Lab well into the 21st century.

"I am looking forward to helping the Laboratory's directorates with the wide range of information management challenges they face in supporting mission-oriented research programs," Neves said. "Foremost will be the commitment to continue and enhance the high level of security and information assurance in view of increased international activity in cyberterrorism. My long-term goal will be to coordinate broad improvements to the Lab's information environment that bring value to the users and major programs at a reasonable and appropriate cost."

Michael Anastasio, deputy director for

Strategic Operations, said Neves' selection "marks a concerted effort to enhance the value of the Lab's information infrastructure and integrate the various efforts across the Lab into an efficient and effective information."

Prior to joining LLNL, Neves was the director of computer science research at the Boeing Co. in Seattle. In that role he established long-term research collaborations with IBM, Hitachi and a major computer aided design (CAD) supplier, and has played an active role in advising programs and computing organizations in system selection, performance and scalability of enterprise applications.

Neves was selected as a senior technical fellow (STF) of Boeing in 1990, joining eight existing STFs. He was selected for his contributions to the field of computation internal and external to Boeing. He has served on computing selection boards and has advised information technology decision makers both within Boeing and externally for over a decade. In his 26 years with Boeing, he managed efforts in intelligent document technology, grid computing, network and communications technology, high-performance computing, knowledge discovery and intelligent systems.

Most recently, Neves led a team developing



**Kenneth W. Neves**

Boeing's information technology research strategy and also its R&D response to aviation security and the war on terrorism. He has served as an adviser to Boeing's computing complex, including the company's CIO and other computing organizations.

Neves is no stranger to the Laboratory. He has served on Computation's Directorate Review Committee, which is an external group of experts that advises the associate director and Laboratory director in the area of computing.

Neves received his Ph.D in mathematics (numerical analysis) from Arizona State University in 1973; an M.A. in mathematics from the same university in 1970; and a B.A. in mathematics and physics with "great distinction" from San Jose State University in 1968.

The CIO position was created at the Laboratory by Director Bruce Tarter in 1996, and Dave Cooper served as both CIO and Computation associate director until he stepped down in 2001. Ted Michels has served double duty as principal deputy associate director in the Computation Directorate and acting CIO since then, while Brenda Turteltaub serves as the deputy CIO.

"I would like to thank Ted for all he has accomplished for the Laboratory as acting CIO," Crawford said, noting that Michels has "laid a solid foundation" on which the new CIO can begin building an enterprise plan.

## Technical Meeting Calendar

**Friday**  
**3**

### INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Hunting Clusters for Fun and Profit," by Martin White, UC Berkeley. Noon, Bldg. 319,

room 205 (badge required). Contacts: Adam Stanford, 3-6013, or Rosemarie Cortez-Kudo, 3-0621.

### MATERIALS SCIENCE & TECHNOLOGY

"Materials by Design: An Informatics Approach," by Krishna Rajan, Rensselaer Polytechnic Institute. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Rebecca Browning, 2-5500.

**Monday**  
**6**

### CHEMISTRY & MATERIALS SCIENCE

"Characterization of Cathode and Anode Materials of Li-ion Batteries by TEM," by Heike Gabrisch, California Institute of Technology. 10 a.m., Bldg. 235, gold room (uncleared area). Contact: Luke Hsiung, 4-3125, or Roberta Marino, 3-7865.

### CHEMISTRY & MATERIALS SCIENCE

"Public Health Implications of a Large-Scale Bioterrorist Event: Requirements for Advanced Surveillance and Response Systems," by Frederick M. Burkle, Center for International Emergency, Disaster & Refugee Studies, The Johns Hopkins University Medical Institutes. 1:30 p.m., Bldg. 123 auditorium. For information on Burkle and an abstract of his talk, see [http://www-cms.llnl.gov/cms\\_frontiers\\_ext/index.html](http://www-cms.llnl.gov/cms_frontiers_ext/index.html). Contact: Hal Graboske, 2-7264, or Kristine Ramirez, 3-4681.

**Tuesday**  
**7**

### ENERGETIC MATERIALS

"Mechanism of Lightning and Its Attraction to the High Structures," by Yuri P. Raizer, Institute for Problems in Mechanics, Moscow.

1:30 p.m., Bldg. 219, room 163 (badge required). Contact: Peter Vitello, 2-0079.

### CHEMISTRY & MATERIALS SCIENCE

"Materials with Cracks, Pores and Inclusions," by Mark Kachanov, Tufts University. 2 p.m., Bldg. 361 auditorium. Contact: Alan Jankowski, 3-2519.

**Wednesday**  
**8**

### MATERIALS RESEARCH INSTITUTE

"New Science at Megabar Pressures," by Russell J. Hemley, Carnegie Institution. 3:30 p.m., Bldg. 219 room 163 (badge

required). Contact: Riad Manaa, 3-8668, or Joanna Allen, 2-0620.

**Thursday**  
**9**

### MATERIALS SCIENCE & TECHNOLOGIES

"The Crystallography of Transformation and Deformation Twins in U-Nb Alloys," by Robert Field, LANL. 3:30 p.m., in Bldg. 235, room 1090 (uncleared area). Contacts: Geoff Campbell, 3-

8276, or Becky Browning, 2-5500.

**Friday**  
**10**

### INTEGRATED COMPUTING & COMMUNICATIONS

Legato update and technical briefing on Networker and enterprise class software solutions and service offerings. Bldg. 361 auditorium, 9 a.m. to 2:30 p.m. Speakers include key corporate executives and technical specialists from Legato products and

engineering organizations. Refreshments will be served. RSVP to <http://www.legato.com/llnl/>, or Candace Gittins, [gittins1@llnl.gov](mailto:gittins1@llnl.gov).

### DEFENSE & NUCLEAR TECHNOLOGIES

"Omega Radiation Experiments: Making Measurements That Matter," by Christina Back, LLNL. 10:30 a.m., Bldg. 132 auditorium (cleared area). SRD presentation (Q clearance required). Contact: Mark Herrmann, 2-6999.

### INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Dispersal Of Disks Around Young Stars," by David Hollenbach, NASA. Noon, Bldg. 319, room 205 (badge required). Contact: Jenny Patience, 2-2102, or Rosemarie Cortez-Kudo, 3-0621.

### MATERIALS SCIENCE & TECHNOLOGY

"Synchrotron X-Ray Microscopy: Application to High Resolution Materials Characterization and Metrology," by John Kinney. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Rebecca Browning, 2-5500.

### The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to [tmc-submit@llnl.gov](mailto:tmc-submit@llnl.gov). For information on electronic mail or the newsgroup [llnl.meeting](mailto:llnl.meeting), contact the registrar at [registrar@llnl.gov](mailto:registrar@llnl.gov).

## AROUND THE LAB



# DDLS to discuss strategy for biological security

The need for a comprehensive strategy for coping with biological terrorism will be discussed when Christopher Chyba presents "Toward Biological Security," as part of the Director's Distinguished Lecturer Series.

Director Bruce Tarter invites all employees to attend the lecture, which takes place at 3:30 p.m. Thursday, May 16 in the Bldg. 123 auditorium.

Chyba is the co-director for the Center for International Security and Cooperation and associate professor of research in the Department of Geological and Environmental Sciences, both at Stanford



Christopher Chyba

University. He also is the Carl Sagan Chair for the Study of Life in the Universe at the SETI Institute

According to Chyba, last fall's anthrax attacks make it clear that the United States needs a comprehensive strategy for coping with biological terrorism. For too long, thinking about biological weapons has been held hostage to misplaced analogies to nuclear and chemical weapons. Chyba says an effective strategy must instead focus on the special challenges posed by biological threats.

Biological security requires a mix of nonproliferation, deterrence, and defense that looks

very different from the techniques used to curtail the spread of nuclear or chemical weapons.

Effective biological security demands that the United States act to improve global disease surveillance and response capacity — an element of "defense" that has no good nuclear or chemical analogue, Chyba maintains. Biological security also requires ongoing research to counter emerging potential threats driven by biotechnology. It is as much about public health, science, and technology as it is about military strategy. These needs emphasize the vital role that scientific advice will continue to play in national security.

Chyba's lecture will be broadcast on Lab Channel 2 Thursday, May 23 at 10 a.m., noon, 2, 4, and 8 p.m., and on Friday, May 24.

## Speaker recalls heroism of Jewish people in honor of Yom Hashoah

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

Robert Katz, a member of the South Bay Holocaust Survivor's Group and the Jewish Partisans' Education Foundation, came to the Lab recently to speak about the heroism of the Jewish people sent to Nazi concentration camps.

His talk, which was sponsored by the Safety, Security and Environmental Protection Directorate, was given in honor of Yom Hashoah, Holocaust Remembrance Day.

"The importance stressed in Yom Hashoah is never forgetting the people who died during the Holocaust," said Manny Lateiner, deputy AD for SSEP, during his introduction.

As part of Yom Hashoah, candles are traditionally lit as a memorial. "I brought 12 candles here to honor the people who died during the Holocaust. Six million were Jews and six million were Christians, and they were just as dead," Katz said.

In opening his talk, Katz offered to buy everyone in the audience lunch.

"In fact, I'm going to buy you breakfast, lunch and dinner," he said, asking audience members to look under their chairs. He had placed a small sandwich baggie containing a slice of moldy bread and a small chunk of moldy potato under



JULIE KORHUMMEL/NEWSLINE

During his visit to the Lab, Robert Katz (left) and his wife Ronit Katz of Health Services met with Director Emeritus Edward Teller.

each chair in Bldg. 543. "I brought you a day's ration in the camps."

Katz, who lectures extensively about the Jewish resistance against the Nazis, told Lab employees that despite the many horrors of the death camps, there were tales of heroism that should be remembered as well.

"The lifespan on these rations was three

months — if you had good genes," he noted. "When they were freed, they were skin over bones. These were the people who were expected to launch heroic resistance against the well armed, well trained German machine — and they did."

He told of people in the camps who tried to use axes and shovels as weapons against the heavily armed German soldiers, others who tried to help fellow detainees escape by laying down on the barbed wire-ringed fences in the hopes that someone would get out, and still others who tried to set one of the camps on fire.

"They had siphoned gas, filled disinfectant bottles with it and set Treblinka aflame. Not many escaped, but they tried anyway. They wanted to die with dignity," Katz said.

He also commended the many brilliant Jewish scientists who were part of the Manhattan Project, most notably,

Lab Director Emeritus Edward Teller, who was present for his talk.

"Based on everything I've read and researched, the man who has single-handedly done more for the security of this nation is Dr. Edward Teller," Katz said, as he walked across the front of the auditorium to shake Teller's hand.

### TRAVEL

Continued from page 1

understanding, behavioral analysis and in-flight security, passenger profiles, stages of a hijack, weapons recognition, and ground and hotel safety.

The seminar will run from 9 a.m. to 4 p.m.

It will be conducted live at Livermore and simultaneously videocast to Los Alamos National Laboratory for viewing there. Employees from Sandia-California are welcome to attend the event.

People interested in attending the seminar are asked to contact Kim Hegman (4-4866) to assist in determining the audience size, although a call is not mandatory for attendance. If there is sufficient interest, the seminar will also be broadcast on-site.

This travel security seminar is sponsored by the Proliferation Prevention and Arms Control (PPAC) and the Security Awareness For Employees (SAFE) programs of NAI.

## BRIEFLY

### MLA policy available for comment

In the past, when full-time indefinite career or term employees had appointments at more than one UC location, it caused numerous administrative problems. In 2000, UC implemented a Multi-Location Appointment (MLA) process for the UC campuses.

This process simplifies payroll, sick leave and vacation accrual, and UC retirement system service credit accrual when employees of one UC location (the home location) accept temporary, part-time appointments at

another UC location (the host location). Under UC's process, employees with MLAs continue to receive their paychecks from the home location. The home location invoices the host for its portion of the employee's salary, as specified in the host location's offer letter.

Because the Laboratory's personnel policies differ in a number of ways from those applicable to UC campuses, the Laboratory has been working with UC to adapt the MLA process for the Laboratory. A proposed LLNL MLA policy and procedure are now available for employee review and comment at [http://www-hr.llnl.gov/PDF/hr\\_admin/policy.ssi](http://www-hr.llnl.gov/PDF/hr_admin/policy.ssi). Comments or questions may be directed to Virginia George at L-708 or [george13@llnl.gov](mailto:george13@llnl.gov) by May 10.



# CLASSIFIED ADS

## AUTOMOBILES

1990 - Chevy truck,1500,V6,A/T,A/C,shell/carpet kit, new brakes,very good condition, \$4800./BO. 209-983-0475

1995 - Dodge Neon 100,000 miles, runs, good condition, new tires \$2000/OBO 209-599-2506

1994 - Dodge Ram Van 98K miles, V8, capt. chairs, bed, overhead lights, A/C, tow pkg, new brakes-transmission-battery \$5200 (925)462-3055 925-462-3055

1999 - Volvo S70 sedan, white w/tan leather. Auto, alarm, CD, new tires, 31k miles, excellent condition. \$21,000 209-986-4252

1994 - Autopower 6-point bolt-in roll cage for sale. Designed for 1994 and up Mustang. Competition legal. \$400 OBO. 925-679-2432

1978 - VW Convertible KG Bug- A real cutie! Newly restored w/new engine, exhaust, muffler, etc. Great condition! 209-835-5066

1953 - Studebaker Roadster frame, engine etc... w/Delawri Coachcraft fiberglass convertible body on top. absolutely must sell. \$500.00 925-449-5626

1991 - Ford Explorer XLT, 109K miles, AC,CD, leather. runs well \$3000 415-928-4469

1985 - Chevy Suburban (diesel) - started restoration. Sacrifice at \$1200 or BO. 209-956-3718

1973 - Oldsmobile Toronado Classic. One owner. Always garaged. 142Kmi. Excellent Condition. Must see to believe. \$2950 925-447-9969

1991 - Honda Civic, LX 4 door, AT, AC, Power Windows, Cruise Control, Good Condition, 135K miles, \$3500 925-443-5044

1989 - Ford Taurus SHO. White, 160K miles, great commute car. Sun roof, 5 speed, A/C, CD-Player, Good condition. \$2,500 obo. 209-234-2337

1963 - VW Bug rebuilt engine w/about 10K miles, new tires, new carb, vintage roof rack, runs great - \$3000 or best offer. 925-455-1907

1997 - Ford Expedition Custom Rims and tires New Rancho RSX shocks custom grill Great Loking truck \$18,500 OBO 925-292-1581

1989 - Chryslers TC Convertible with Hard Top, 2Dr, 4-Cyl. 2.2L Turbo, automatic, leather interior, A/C, AM/FM, Cassette, 67K miles, \$5,500. 925-837-1060

1999 - RS Chevy Camaro, excellent condition, automatic, custom chrome rims, power windows/locks, 38,000 miles. \$15,500/offer. 925-485-3216

1995 - 4 dr Pontiac Grand Am, auto, air, good cond., new transmission, 78,000 miles, \$5000 firm 925-447-9353

1982 - 1982 VW RABBIT 950.00 or best offer 925-625-7213

1993 - Acura Legend coupe, Red. 51K miles Excellent condition. All extras! \$12k (KBB \$13,400) 925-447-1174

1986 - Toyota Corolla FX-16 GT-5 4 Cyl 1.6L 4AGE Engine 137000 Miles, Air, Pwr Windows, Locks, Mirrors, Moonroof. AM/FM Cassette Alloys \$2750.00 209-551-3973

1972 - Olds Cutlass, V8 350 Rocket, 2nd owner. Straight body/paint, immaculate interi- or Runs excellent \$4500/OBO. Call anytime. 925-209-9364

## AUTOMOBILE ACCESSORIES

LEER Truck Shell, 8ft. Grey color, Sliding glass side windows. \$300.00 925-443-6829

Tire, Brand new! LT235/85 16 inch Firestone 10 ply mud and snow. \$50 925-516-8339

305/70R-16 Pro Comp Tires on 16x8 Weld Racing Outback wheels w/caps. Fits late model GM trucks. Like new, less than 750 miles. \$1,250 209-365-0412

Tires 2ea,BFG Euro 305/50/15,like new less than 100 mile. BO 925-462-8076

15 inch Six bolt Pickup TRUCK WHEELS, steel, 2 for \$30 Livermore 925-447-7070

## BICYCLES

Schwinn Mountain bike, mens 26in., 18sp with grip shifters, gel seat, like new, less than 10 miles on bike, mint; \$235 call aft 6pm 209-832-2056

15.5 inch Trek 950 mountain bike with RockShox JudySL fork. Shimano 21spd. In great shape. Dk. purple color \$150 OBO 510-583-0933

One new 14 x175/70 Michelin A4 TIRE on 4 bolt Ford rim \$22 925-447-7070

## BOATS

1995 Kawasaki 900 ZXI jetski. Extra ride

plate, extra impeller w/shorlander trailer. Very good condition. \$3500.00 O.B.O. 209-551-4309

## ELECTRONIC EQUIPMENT

Canon S110 Digital Camera, 2.1 M pixel, new in box, never used \$350 OBO (925) 422-5622 or (831) 625-5983.

Electron tubes, (radio tubes) giveaway, about a dozen 925-443-6872

Mac LCII, 13 in. color, 16MB RAM, 1.1GB HD, 88MB Ext. Removable SyQuest HD, Ext. CD-Rom, Games, utilities, Word, MacDraw & Service Book. \$50.00 OBO. 925-443-7729

Grand Theft Auto 3 for PS2. Like New. \$40.00 925-245-1560

PowerMac 6100-AV CPU, assorted software with discs and manuals, modem, \$50. 925-417-8813

COMPUTER DESK, compact, on castors, oak finish. Has 3 shelves, 2 pull out. \$30 or best offer. 925-447-2905

## GIVEAWAY

DRYER THAT WILL NOT DRY!! Whirlpool. Element is out, rest works. Kids say; Send it to Isle of Misfit Appliances. I say; You haul it, it is yours. 925-243-0293

Hot Tub 7x7. Possibly needs new motor. If you can haul it, you can have it. 925-606-1972

8 assorted 2 inch round treated tree poles, 3 to 7 feet long. Take all or none. 925-447-5221

Free cast iron wing for JET 10 inch contractor saw. Brand new in box, still packed in cos-moline. Can bring to Lab for pick-up. 510-769-6654

3 piece Broyhill sectional sofa in excellent condition. LAF Dual recliners. RAF Queen sleeper sofa. Oak accents. You pick-up. 925-443-0973

## HOUSEHOLD

Moving Sale - Saturday May 4, 2002 - 5644 Oakmont Circle, Livermore - Furniture, clothing, range/oven, aquarium, etc. 925-454-0931

Rosewood mahogany dressing table & dresser w/protective glass tops, orig. hardware, solid wood, matching mirror, nightstand & bench seat. \$350. 925-449-4963

Black&Decker vac n mulch blower \$25, Bissell rug cleaner \$20, Fountain \$30, 4 stools \$25, Kenmore hepa air cleaner \$25, 25 inch TV \$50. 925-449-8124

Washer/dryer \$200; oak dinette/1 leaf/4 chairs \$200; oak coffee table \$90; dresser/mirror/nightstand \$150. All OBO 925-606-7636

Bed twin size. Jenny Lind headboard. Sealy mattress/boxspring. Used only 9 mo. Like new. \$115. 925-447-9969

Couch and Love Seat-Light Blue fair condition. \$200 or B.O., Above ground pool 16ft round \$175 or B.O. 925-443-4848

Custom verticle blinds, beige color, almost new; 6 X 4, 8 X 5, 10 X 5. Best offer. 925-447-7912

Sofa sleeper and dual reclining loveseat, hunter green, 5 yrs. old, great condition, made by Lane, \$850. 925-456-7972

Moving sale: 6 Maple dining chairs, Maple China cabinet, side by side refrigerator / freez-er, 2 Oak desks. 925-373-0626

Cedar patio loveseat glider, \$40. 925-454-9291

Ferarri bed frame for kids, Tyco, bright red. Paid \$800 sell for \$250. 650-364-5951

KitchenAid 325w 4.5qt stand mixer, white. Brand new, never used, still in box. Includes dough hook, wire whip and blade. \$150.00 925-516-9510

Fisher Price Activity Desk and Lego Workstation. Great for drawing, coloring and building legos. Good condition. \$15. 209-832-1321

Dining room set Great condition \$550.00 925-625-9215

FUTON wood frame black queen size cushion/mattress \$50 925-454-1969

Roll top desk, solid oak, Winners only, not a scratch! \$700 925-516-8339

Farm table, solid hardwood approx 48 x 30 with 4 chairs. \$125 925-516-8339

Kids Table with 2 chairs \$18 Great cond. Call 925-516-2728

Radial Arm Saw, 10 in. Craftsman with metal stand. \$250 209-823-4730

## LOST & FOUND

LOST! Single earring. Sterling post, turquoise stone w/ivory feather. Whoever placed found ad, had wrong phone #. Please call - 209-321-5435

## MISCELLANEOUS

Memento-New and unopened DVD movie, a masterpiece thriller. Call fast, it will go quick-ly. \$10.00 510-791-8623

BOSCH ROTARY HAMMER-Model 11213R Bulldog. Drills concrete much better than a hammer-drill. 24V system modified for 110VAC. Works great \$95.00 OBO. 209-239-1338

Computer chair \$25; fountain (still in box) \$30; 2 lamps \$30. All OBO 925-606-7636

Pink Escallonia 5 gal \$5 ea.; Dwarf Day Lilly Gold 1 gal \$2 ea. 925-447-6192

Breast Pump - Medela Pump in Style (dual attachments) Paid \$260 last year. Asking \$200 - only used 5 times. Have box and instruc-tions. 925-455-8823

Honda Generator 3500, exc. condition, very low hours. \$1350.00 209-239-5983

Gigantic 4th Annual Church Parking Lot Sale - Saturday, May 11, 8 to 12:30. 1893 North Vasco (1 mile north of I580) 925-447-8881

GARAGE SALE-SAT May4/02 9a-2p 4111 SUGAR PINE WAY Springtown, Livermore. Washer/Dryer, Desk, Couches, Dressers, Crib, Little Tykes stuff. 925-447-1428

PRAZI SD300 Precision Lathe 5 inches by 12 inches, Auto thread. Paid lots will consider offers. Mike Doty 209-823-6501

10+ Family Garage Sale May 4&5 8AM Antiques, Jewelry, Glassware, Electronics, Appliances, Furniture, Clothes, Toys... 20 San Paulo Ct. Danville 925-830-5118

Fountain (coyote/cactus theme) w/pump \$50, 4 wood stools \$40, both in good condition. 925-449-8124

Flowmaster cat-back exhaust \$250. ProTecta bed mat \$60. R&D Fog light controller, (auto-matic on) \$20. All like new. Fits late model GM trucks. 209-365-0412

7 Levis 550 boys jeans some new sz 7/7X (\$7ea/all \$42) Boys Nordstrom Khaki suit sz 6, like new orig \$160 only \$25. New sz 2 dress loafer \$5 925-516-2728

Mens suit. Paul Dione brand, black with small grey pin striping. 36 waist, 42 jacket. Paid over \$500 at Nordstroms and worn once. \$100. 925-648-0671

## MOTORCYCLES

1992 - Suzuki GSXR 1100 Ready to roll ~33K miles good condition \$3750.00 OBO 925-449-5626

1979 - Triumph Bonneville 750cc. 9000 origi-nal miles. Red/black, garaged, excellent. \$3500 925-373-0483

1984 - Yamaha 80 cc,runs great,Great for kids \$250.00 925-606-9974

1968 - Yamaha YCS1-C. Classic 180cc, two stroke. Easy restoration project. \$350 includ-ing delivery to anywhere in East Bay/Tri-Valley/Tracy area. 925-600-1817

## MUSIC INSTRUMENTS

Gibson ES347 gold hrdwr/Walnut color \$750.Crate GX40DSP stereo amp w/onboard effects \$250. Peavey Classic 30 tube amp w/extra cab \$350.All perfect. 925-373-0483

## PETS & SUPPLIES

COWPOKES HORSE CAMP Riding Lessons, Weekly Riding Camps, Horses for Sponsor. For More info. call 925-673-0938

Pet door insert for sliding patio door.For large dog.In good condition.\$25. 925-417-8813

Free cat to good home. Call for more information - 925-516-9293

Shelby - Yellow lab mix. 3 yr Female spayed w/current shots. Med sized. Loves dogs and kids, doesnt bark. Not good with cats. Free to a loving home. 925-455-8915

Dog carrier, XL 36x26x26, Brand, Dogloo Inovator, hard plastic, great condition. \$50.00 925-447-7190

Pheasant pair, male/female, hen laying - \$25 925-447-6728

Rottwieler Mix Pups. Approx. 12 weeks old. Really cute. 3 males and 1 female. Free to good home. 209-833-8127

Free to a good home. Beautiful male black cat. Very affectionate. Fixed and declawed. 209-423-6392

Border Collie male - sweet and very smart. Seeking dog lover with lots of land for him to run on. 209-612-8052

FOR SALE LARGE BIRD CAGES 1 in bar spac-ing 1 cage 100.00 2nd cage 150.00 I need sell one of these. 209-321-7203

Lab puppies, AKC,ready April 21st call 209-547-1200 8-5 pm or nights 7-9 pm at 916-685-7470 Asking 350.00 209-547-1200

## RECREATION EQUIPMENT

2 meter sail plane with 4 channel radio, ready to fly \$140.00 925-449-7388

Kids ski boots, Lange, size 19.5, used once, \$50. Kids snowboard boots, size 2.5, \$25. 650-364-5951

Children bicycles. Small yellow girls with or with-out training wheels \$10. Boys 20 inch frame (for 6-10 year old). \$20. 209-832-1321

Pool table, Brunswick sportking tournament table 4.5 x 9, 1 inch slate, excell cond.\$1200 925-516-8339

## RIDESHARING

Express your commute, call 2-RIDE for more information or visit http://www-r.llnl.gov/tsmp.

Orinda - Carpool from Lamorinda seeks 4th rider/driver. Meets near St.Stephens & 24. Lab hours 8:15am-5pm. 925-253-0498, ext. 2-9823

Modesto - Carpool,Modesto to LLNL Time flexi-ble. ext. 209-522-7136, ext. 3-3575

Antioch, Brentwood, Oakley - Vanpool has seats available. Beat the bus in time and cost! 7:45-4:30. 925-625-0534, ext. 2-2174

Danville - Camino Tassajara & Crew canyon (near Blackhawk) - 2 drivers/riders seeking additional members to carpool from south Danville area. 8:00 - 4:45 925-736-9441, ext. 2-1039

Walnut Creek - Concord, Pleasant Hill new luxu-ry vanpool has an opening. 8:00 to 4:45. 925-945-4926, ext. 2-2805

Patterson - Vanpool. Seats are available. Work hours 7:30-4. Kim 209-892-2118, ext. 2-9502

Manteca - Rider/Driver needed for 4 person car-pool. Arrive LLNL 7:45AM, Lv 4:30PM. Drive 1 day per week and 1 Friday a month. Very flexible. 209-823-5085, ext. 2-0643

## SERVICES

House Painting - Liscenced contractor w/ over 16 years exp. Call for free estimate. 209-956-3718

Will do typing at my home or yours in the evenings and weekends. Please call 784-0776 after 8 pm. 925-784-0776

Will house-sit for you while you are on vacation. Home being built and my wife and I are home-less till September. 925-895-6133

Roofing, 28 yrs experience, fully insured 925-454-9200

Roof repair or a new roof! Large or small jobs, we do it all. Over 15 years experiece. Give us a call. 925-606-1528

Wedding Photography: 21 years exp. Medium for-mat cameras used. You keep the negatives. Reasonable prices. 925-829-1474

WANTED: Someone who would enjoy fostering and providing administrative support for a small (<200 member) professional society. 925-455-5323

Want to learn some great rubberstamping and scrapbooking techniques? I use Close To My Heart products. Sign up for my May 25th work-shop. 925-455-8455

Air Conditioniing installation and change out existing equipment.Take advantage of 2002 rebate programs. 209-544-8072

FLOORING - Carpet, linoleum, wood laminates, 28 yrs exp. Licensed/bonded/insured, reasonable rates. 925-516-9510

TUTORING in high school and college chemistry and math. 925-443-2095

CoDA ñ Codependents Anonymous - Meets Tuesday Noon B571/R2016. 12 Steps Support BETTER RELATIONSHIPS! Just come or Info 925-447-7070

## SHARED HOUSING

Livermore - Available 6/1/02 Master bedroom w/pvt. bath in an apartment N/P N/S 1 mile from LLNL, \$685.00 + 1/2 utilities. 925-373-9274

Livermore - Master Bedroom + Bathroom in a 3br 1&1/2ba home 3 minutes from Lab, all privileges N/P \$700.00 plus 1/3 utilities. Leave message on 925-422-8483. 510-305-9791

Livermore, CA - Room-4-Rent. \$550/Mo. includes utilities. N/S. Available 5/15/02. 925-449-1474

Brentwood - Brentwood:2 rooms/pvt bath;2nd story;new home,garage,new appl.,sat.,nr Vasco Rd. \$1000 + 1/2 util. 415-706-6668

Livermore - Room for rent in 3 bd/2ba house, 3 miles from LLNL. Available May 1. \$500 per month plus deposit. 925-371-0951

## TO TRADE

Power Lawn Mower for Push Lawn Mower. 209-823-5085

## TRUCKS & TRAILERS

1954 - F-100 Runs great,302 -/4 250 miles,auto,pwr steering and seat,new front-end,lots more extras,needs paint and uphol-stery. \$5000 925-679-1288

1976 - Automate 24ft trailer. self contained. \$1000 209-869-1191

1974 - International Scout II 4x4, heavy wench, straight body, interior in good con-dition. Great project. not running. \$750.00 925-449-5626

1979 - 1/2 ton, 4X4, Chevy Suburban, Recent 400ci engine, automatic, current tags, needs minor work. \$3750.00 OBO. 925-449-5626

1998 - Catalina Lite Trvl Trlr 25ft Exc shape, slp 6; Towed by Ranger/4.0/auto. B1Bk ret. \$11.6k; will sell for \$9500 firm (\$17.8k for both) 925-240-7680

1996 - Nomad 27.5 ft 5th wheel w/14 ft slideout. 13.5 OBO 209-847-8264

1996 - GMC K3500, Crew Cab, 4X4, 8ft w/shell & Bed Kit, New Tires/Rims, Seats 6, 60K mi. EXC Cond., All Options. \$21K Bill 925-487-0698

1964 - Bolens garden tractor with rototiller and bucket. Has not been operated for 2 years. Free. 925-449-6981

1993 - GMC, 1 Ton, ext.cab,454,5th wheel tow pkg.,loaded w/many extras,low miles,camper shell,exc.cond.,call for more info. 209-239-5983

1999 - Winnebago Rialta 22F Classic mini-motorhome with many options and extend-ed warranty. Excellent condition with 26,050 miles. \$39,900.00 O.B.O. 925-447-4173

1990 - 4 foot by 6 foot steel trailer. 2 inch ball, rides well with a ton in it, not for camping gear. 209-823-6501

Rancho RSX shocks & skid plate. Fits late model GM trucks with lift. Less than 750 miles and no dings in skid plate. Shocks \$100, skid plate \$250. 209-365-0412

1996 - Chevy Tahoe LT, fully loaded, over \$8K of upgrades. Runs/Looks excellent. Make me an offer!bpr55032, 925-292-5051

1988 - Coleman Tent Trailer.Sleeps five,awning,stove,water and electric con-nections,original owner,excellent condition. \$2000. 925-837-4331

1999 - Dodge Dakota Short Bed, Green, 4-cyl, 5-speed, AC, PS, AM/FM Stereo, CD, Bed Liner, only 19K miles,\$9600 OBO. 510-797-7860

1986 - Ford F-150 2W, A/C, AM/FM, ABS, camper shell, excellent running condition. \$2800 925-449-8422

1999 - Blue Chevy Silverado pickup w/hard tonneau cover, premium wheels, custom exhaust, tow pkg, power everything. 24K miles, very clean. \$16,000. 209-551-4309

## VACATION RENTALS

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8, conv to bik-ing, hiking, everything. \$200 wknd,\$500/week call for availability 209-836-3481

KONA, 2 bdr. 2 bath oceanfront beach-house and/or separate cottage. Private patios & pool over-looking sea. 510-524-6668

South Lake Tahoe - Time Share Condo - \$500 per week or call for 2-5 day rental and flexible dates in 2002, sleeps 4 or



## NEWS OF NOTE



# TID employees win 'best of the best' in STC awards

By Sharon Emery

TID

The Technical Information Department (TID) has received two international awards and numerous regional awards in recent months from Society of Technical Communication (STC) competitions held to recognize outstanding technical publications and encourage excellence in the profession of technical communication.

The awards presented to TID at the international publications competition are especially impressive because, at this level, the entries are the "best going against the best." Only the top winners from STC regional competitions are eligible for the international competition.

The LLNL *Science & Technology Review* (S&TR) magazine received the top honor in the magazines category — an Excellence Award — in the international competition and a Distinguished Technical Communication Award in the New Mexico Kachina Chapter regional competition. S&TR, a Director's Office publication, is produced by TID under the direction of the Office of Policy, Planning and Special Studies. The magazine is currently distributed to over 7,500 subscribers worldwide. In addition, about 300 individuals are notified by e-mail when the latest issue is released online ([www.llnl.gov/str/](http://www.llnl.gov/str/)).

The LLNL Laser Science and Technology Program Update won a Merit Award in the newsletter category during the same international competition, which was held in Houston April 6. The 2000 annual report provided highlights of the program's cutting-edge work with advanced solid-state lasers and optics technologies and is available through the Laser Science and Technology Website ([www.llnl.gov/nif/lst/lstpubs.html](http://www.llnl.gov/nif/lst/lstpubs.html)).

During the international event, 122 winners from regional competitions were evaluated for such qualities as production, design and typography, copy editing, content and organization, graphics, and meeting the intended purpose for its audience. Eighty-one awards were presented.

In January, TID had great success at the Kachina regional competition, with 13 awards for



FRANK NUNEZ, TID

**The staff of the Lab's *Science & Technology Review* magazine was recently honored with an excellence award in the International Publications Competition.**

the 15 publications that were entered. Most notable was the presentation of the Best of Show in Art Award for the LLNL Annual Report 2000, selected for its outstanding design. (*A complete listing of award winners is provided in the table below.*)

In March, the LLNL Environment, Safety, and Health Manual won a Merit Award in the online communication category at the STC Northern California Touchstone Chapter competition.

STC is an individual membership organization dedicated to advancing the arts and sciences of technical communication. It is the largest organization of its type in the world. According to the STC Website: "Its 25,000 members include technical writers, editors, graphic designers, videographers, multimedia artists, Web and intranet page information designers, translators and others whose work involves making technical information available to those who need it." There are 150 STC chapters located around the world.

The winning competition entries will be displayed at STC's 49th Annual Conference in Nashville, Tenn., May 5-8. In addition, TID will receive inscribed plaques in honor of its achievement in the international competition.

Below is a complete listing of the LLNL staff involved with winning entries in recent STC competitions.

- Excellence Award (International Publications Competition) and Distinguished Technical Communication Award (New Mexico Kachina Chapter Competition): *Science & Technology Review* Ray Marazzi, Dean Wheatcraft, Gloria Wilt, Arnie Heller, Ann Parker, Katie Walter, George Kitrinis, Lew Reed, Kitty Tinsley, Louisa Cardoza, Carolin Middleton, Michael Anthony, Nancy Hil, Mike Gallardo, Andrew Quong, Tom Isaacs.

- Merit Award (International Publications Competition) and Distinguished Technical Communication Award (New Mexico Kachina Chapter Competition): "Laser Science and Technology Program Update" — Cyndi Brandt, Hao-Lin Chen, Al Miguel.

- Best of Show in Technical Art and Distinguished Award (New Mexico Kachina Chapter Competition): "Lawrence Livermore National Laboratory Annual Report 2000" — Paul Chrzanowski, George Kitrinis, Susan Stull.

- Excellence Award (New Mexico Kachina Chapter Competition): "Environmental Report 1999 (LLNL)" — Beverly Chamberlain, Karen Rath, Nancy Woods.

- Technical Publications — Promotional Material Category: "How do you get connected?" — Joseph Martinez, Amy Muller, Judy Rice.

- Technical Publications — Annual Reports Category: "Laboratory Directed Research and Development FY2000 Annual Report" — Rokaya Al-Ayat, Karen Kline, Daniel Moore.

- Technical Art — Promotional Poster Design Category: LLNL Postdoctoral Fellowship Poster — Edie Acton, George Kitrinis, Harry Radousky.

- Technical Art — Interpretive Illustration Line Category: LLNL Programmatic Logo Designs — George Kitrinis, Lori McElroy, Stephanie Shang.

- Technical Publications — Newsletters Category (Kachina Competition): NIF Programs Focus Newsletter — Jason Carpenter, Cynthia Cassady, Sue Stephenson.

- Merit Award (New Mexico Kachina Chapter Competition): "Discover Science in the Most Unusual Places" — Karen Kiernan, Kathy McCullough, Bryan Quintard.

- Technical Publications Category: "Fusion Energy Science: Clean, Safe, and Abundant Energy..." — Charles Baker, Karen Kline, Daniel Moore.

- Technical Publications Category: "The Contained Firing Facility" — George Kitrinis, Lloyd Multhauf, Stephanie Shang.

- Technical Publications Category: "2000 Engineering Annual Summary" — Andrea Baron, Lucy Dobson, Carol Gerich.

- Merit Award (East Bay Touchstone Chapter Competition): "Environmental, Safety, and Health Manual" — Sherry Emmons, Paul Kotta, Dennis Lai.

## Return to Work enhances partnerships to provide expanded program

Do you know what LLNL services are available to you if you can't work?

A small investment in time to understand your medical and disability benefits and support services before you become ill or injured can pay dividends for both physical and emotional health.

The Return to Work Program has evolved into a more comprehensive benefit for employees than just returning to work. It can now provide assistance and guidance in dealing with the multitude of issues involved with disability. As a result of enhanced partnerships with Staff Relations, Payroll, and Benefits, the RTW Program can help you with:

- Workers Compensation: assistance with understanding and completing paperwork; communicating with treating doctors, claims administrators, interpretation (i.e. "translation") of terminology and the workers' comp process.

- Returning to work with both work and non-work related injuries and illnesses: communication

with your return to work manager to facilitate possible worksite accommodations, schedules, and transportation.

- Issues with your health care provider/HMO/PPO: assistance with obtaining timely medical care.

- Long term and short term disability issues: communication with Liberty Mutual, payroll department and treating doctors to help streamline the process and keep it moving quickly.

- Liaison services between employees, the Benefits Department, and/or the Payroll Department: communicate with designated individuals in these departments to help you obtain the benefits you are entitled to.

Much of the success of the Return Work Program is due to the coordinated efforts of organizational points of contacts (LLNL's Return to Work managers). Virtually all employees with medical restrictions have been able to return to work (accommodated) on a short-term basis. Your directorate RTW manager can be a valuable

resource for assistance. Also, to help facilitate the return to work process, Health Services clinicians are actively involved in work area visits and ergonomic assessments, and regularly provide managers and employees with resources on injury prevention, safety and health promotion.

Additionally, Health Services can provide you with other services such as parking permits, onsite treatment including physical therapy for occupational injuries, and practical suggestions for managing your injury or illness at home and at work.

The Return to Work Website <http://cmg.llnl.gov/healthserv/rtw/rtw.html> provides detailed information about the RTW program, including benefits available to you, hints on working through the system, and a comprehensive list of people you can contact to ensure you receive all the benefits to which you are entitled. Visit the Website for telephone numbers and contact information, or contact us through Health Services at 2-7459.



# THE BACK PAGE

## QUARKS

Continued from page 1

ray Observatory show that the objects are so dense they are likely made up of free quarks. Quarks are the basic constituents of neutrons and protons, but to date have not been seen as free particles.

“This is the evidence we have been waiting many years for,” Chapline said. “When we came up with this theory, we had hoped that one day astronomers would actually be able to see quark stars as compact objects distinct from neutron stars.”

By 1977, scientists knew that under normal laboratory conditions quarks couldn’t exist in a free state, but had to be permanently confined inside nuclei. However, Chapline and Nauenberg had another theory that applies when nuclear matter is highly compressed.

In a paper published in 1977 (“Proceedings of the New York Academy of Sciences Vol. 302”) Chapline and Nauenberg wrote: “The transition to the state where free quarks exist must take place at densities

higher than those occurring in nuclei. The question of where the quark phase transition takes place is of considerable interest to astrophysics because of the possibility that this transition might take place inside neutron stars.”

The scientists further state: “It might be the case, for example, that the central regions of the most massive neutron stars consist primarily of quarks. Another possibility is that free quarks do not occur in the interiors of neutron stars but are the principal constituents of a new regime of stable cold stars.”

To maintain stability, stars balance inward gravity with outward radiation generated by the nuclear fusion in their cores. When the star runs out of fuel (fusion energy), the core collapses and either forms a white dwarf or a supernova explosion (the cataclysmic death of a star) occurs and a neutron star or perhaps a black hole is born. In a neutron star, the gravity in the core of the star is so strong that it forces protons and electrons to merge: thereby forming neutrons. Neutron stars typically are between 12 to 20 miles wide.

In their paper, Chapline and Nauenberg used the then newly developed theory of strong interactions, quantum chromodynamics, together with Einstein’s general theory of relativity to show that a new regime of cold stars could exist and consist mainly of free quarks.

The recent observations point to a new possibility for the remnant of a supernova explosion. One of the two compact objects is between five and 10 miles wide, too small for a neutron star. Remarkably the observed radius is in good agreement with the predictions of Chapline and Nauenberg. The radius of the second object wasn’t determined. However, another prediction for quark stars is that they should cool faster than neutron stars. This is in accord with the observed properties of the second object, which corresponds to a historical supernovae and therefore the time available for cooling is known.

Astronomers who viewed the quark stars claim the new findings promise to open a new window on the nature of matter and sub-nuclear physics.

## MAX

Continued from page 1

group will welcome this year’s fellows and foreign honorary members at the annual induction ceremony at the academy’s headquarters in Cambridge, Mass., on Oct. 5.

The only other Lab employee to be named a fellow of physics in the American Academy of Arts and Sciences was Edward Teller in 1954.

The academy is an international learned society with a dual function: to elect to membership men and women of exceptional achievement, drawn from science, scholarship, business, public affairs and the arts, and to conduct a varied program of projects and studies responsive to the needs and problems of society.

Max was selected as one of the seven new fellows in the physics division. New fellows and foreign honorary members are nominated and elected by current members of the academy. Members are divided into five classes: mathematics and physics; biological sciences; social sciences; humanities and arts; and public affairs and business. The structure of the academy allows members to conduct interdisciplinary studies that use a range of academic and intellectual disciplines.

“This is quite an honor,” said Max, who was the founding director of Livermore’s Institute of Geophysics and Planetary Physics (IGPP). “This is somewhat unique, because the organization not only selects scientists but includes artists, musicians and literary figures.”

Max has had a successful career at the Lab, joining as a physicist in 1974 after serving as a post-doctoral fellow in the Physics Department at UC Berkeley. In the early years, she worked in laser plasma interactions within the Inertial Confinement Fusion division. From there, she moved on in 1984 to the directorship of IGPP at LLNL, then in 1993 to the director of Institutes in the then-named Physical Sciences Directorate, and in 1995 to the director of University Relations. Max now serves as associate director for the National Science Foundation’s Center for Adaptive Optics at UC Santa Cruz, in which the Lab plays a significant role and as an astronomy professor at UC Santa Cruz.

Max’s most recent work focuses on the use of adaptive optics on the telescopes at the W.M. Keck Observatory. Through adaptive optics, the resolution of fine details of astronomical objects is greatly increased.

Installed in 1999, the Keck adaptive optics system

has enabled astronomers to minimize the blurring effects of the Earth’s atmosphere, producing images with unprecedented detail and resolution. Astronomers are obtaining infrared images with four times better resolution than the Hubble Space Telescope, which orbits high above the Earth’s atmosphere.

The academy has honored excellence and service to the nation and the world for more than 220 years. Through independent, nonpartisan study, its ranks of distinguished “scholar-patriots” have brought the arts and sciences into constructive interplay with the leaders of both the public and private sectors.

The academy was founded during the American Revolution by John Adams, James Bowdoin, John Hancock, and other leaders who contributed prominently to the establishment of the new nation, its government and its Constitution. Its purpose was to provide a forum for a select group of scholars, members of the learned professions, and government and business leaders to work together on behalf of the democratic interests of the republic. In the words of the academy’s charter, enacted in 1780, the “end and design of the institution is...to cultivate every art and science which may tend to advance the interest, honour, dignity, and happiness of a free, independent, and virtuous people.”

## DIRECTOR

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effectiveness as Livermore director would have been undermined by the controversy raised last week and its aftermath.

“Dr. Juzaitis is a brilliant scientist who has led nuclear weapons research through the challenging transition from actual weapons testing to science-based stockpile stewardship. He is highly respected in Washington for his contributions to national security and defense.

“Recent press reports about the University’s selection process raised questions regarding Dr. Juzaitis’ directing the division within which Dr. Wen Ho Lee worked. A 20-year veteran of Los Alamos National Laboratory, and currently associate director there, Dr. Juzaitis was director of the Applied Theoretical and Computational Physics Division (the so-called X Division) at Los Alamos for a six-year period during which Dr. Lee also served in the division.

“The University had reviewed documents relevant to the Lee matter. The documents reveal nothing that would change our evaluation of Dr. Juzaitis as an excellent candidate for director of the Lawrence Livermore National Laboratory. Although neither the

University, the Department of Energy, nor the National Nuclear Security Administration had called on Dr. Juzaitis to withdraw his candidacy, we respect his decision to do so.

The national search for a new director will continue, advised by a distinguished committee of Regents, scientists and research administrators from both within and outside the UC system. And I will continue to consult with the Department of Energy, the National Nuclear Security Administration, and other appropriate parties. My priority remains to find an outstanding person to lead Lawrence Livermore into its second half-century.”

### Statement by Director Bruce Tarter

“Ray Juzaitis’ career at LANL has been outstanding. He is a wonderful colleague and our interactions have been highly productive for both institutions. His commitments to the goals of the stockpile stewardship program have been steadfast and beneficial for all of us. We look forward to working with him in the future.”

Ray Juzaitis issued a letter addressing his reasons for his withdrawal. To read that, see [http://www.llnl.gov/llnl/06news/Images/Juzaitis\\_letter.pdf](http://www.llnl.gov/llnl/06news/Images/Juzaitis_letter.pdf). Computers are available in the TID library.



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